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8	Correction Number CP-1478	
9	Log Summary: Identification of species and strain of pre-clinical research small animal subjects	
10	Name of Standard	
11	PS3.3, PS3.6, PS3.16	
12	Rationale for Correction:	
13	DICOM is used for the output of human and dedicated small animal imaging devices, both for imaging and post-processing results.	
14	The existing composite information model is largely sufficient for identification and description of individual small animal imaging	
15	subjects ("patients"), particularly since the addition of attributes for veterinary purposes. However, there are some specific gaps,	
16	including mouse and rat species and strains.	
17	Add mouse, rat, guinea pig, ferret and rabbit species. Add new coding scheme (ITIS TSN) for species that are not covered by	
18	SNOMED. Correct existing SNOMED concepts for species that are now categorized as ambiguous, replacing them with genus,	
19	species, subspecies, etc., as appropriate. Provide UMLS and ITIS entries for these concepts and hyperlink ITIS codes to source	
20	site. Generalize definition of attribute and context group (taxonomic rank values).	
21	Add new attributes related to description of the animals beyond species and breed, and sources of corresponding codes. Specifically,	
22	add text and code values for strain.	
23	Correction Wording:	

Amend DICOM PS3.3 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

## C.2.3 Patient Demographic Module

Table C.2-3 defines the Attributes relevant to generally describing a patient at a specific point in time, e.g., at the time of admission.

**Table C.2-3. Patient Demographic Module Attributes**

Attribute Name	Tag	Attribute Description
...	...	...
Patient Species Description	(0010,2201)	The <u>taxonomic rank value (e.g., genus, subgenus, species or subspecies)</u> of the patient. <u>See Section C.7.1.1.1.3.</u>
Patient Species Code Sequence	(0010,2202)	The <u>taxonomic rank value (e.g., genus, subgenus, species or subspecies)</u> of the patient. <u>See Section C.7.1.1.1.3.</u> <u>Only a single Item shall be included in this sequence.</u>
>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"		Defined CID 7454 " <u>SpeciesAnimal Taxonomic Rank Values</u> ".
Patient Breed Description	(0010,2292)	The breed of the patient. See Section C.7.1.1.1.1.
Patient Breed Code Sequence	(0010,2293)	The breed of the patient. See Section C.7.1.1.1.1. <u>Zero or more Items shall be included in this sequence.</u>
>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"		Defined CID 7480 "Breed".
Breed Registration Sequence	(0010,2294)	Information identifying an animal within a breed registry. <u>Zero or more Items shall be included in this sequence.</u>
>Breed Registration Number	(0010,2295)	Identification number of a veterinary patient within the registry.
>Breed Registry Code Sequence	(0010,2296)	Identification of the organization with which an animal is registered. <u>Only a single Item shall be included in this sequence.</u>
>>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"		Defined CID 7481 "Breed Registry".
<u>Strain Description</u>	<u>(0010.eee2)</u>	<u>The strain of the patient. See Section C.7.1.1.1.4.</u>
<u>Strain Nomenclature</u>	<u>(0010.eee3)</u>	<u>The nomenclature used for Strain Description (0010.eee2). See Section C.7.1.1.1.4.</u>
<u>Strain Code Sequence</u>	<u>(0010.ee20)</u>	<u>A coded identification of the strain if the patient. See Section C.7.1.1.1.4.</u> <u>One or more Items are permitted in this sequence. If more than one item is present, each item represents the same information but encoded using a different coding scheme (rather than post-coordinated modifiers).</u>
>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"		<u>No Baseline CID.</u>
<u>Strain Additional Information</u>	<u>(0010.eee8)</u>	<u>Additional information about the strain of the patient that is not encoded in the formal nomenclature used in Strain Description (0010.eee2). See Section C.7.1.1.1.4.</u>
<u>Strain Stock Sequence</u>	<u>(0010.eee6)</u>	<u>Information identifying an animal within a strain stock.</u> <u>Only a single Item is permitted in this sequence.</u>
> <u>Strain Stock Number</u>	<u>(0010.eee4)</u>	<u>The stock number of the strain of the patient issued by the organization identified by Strain Source (0010.eee6). See Section C.7.1.1.1.4.</u>

Attribute Name	Tag	Attribute Description
>Strain Source	(0010,eee7)	Identification of the organization that is the source of the animal, issued by the registry identified by Strain Source Registry Code Sequence (0010,eee5). See Section C.7.1.1.1.4.
>Strain Source Registry Code Sequence	(0010,eee5)	Identification of the organization that is the registry of sources of animals. See Section C.7.1.1.1.4. Only a single Item is permitted in this sequence.
>>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"		No Baseline CID.

## C.7.1.1 Patient Module

...

Table C.7-1. Patient Module Attributes

Attribute Name	Tag	Type	Attribute Description
...	...	...	...
Patient Species Description	(0010,2201)	1C	The <b>taxonomic rank value (e.g., genus, subgenus, species or subspecies)</b> of the patient. See Section C.7.1.1.1.3. Required if the patient is an animal and if Patient Species Code Sequence (0010,2202) is not present. May be present otherwise.
Patient Species Code Sequence	(0010,2202)	1C	The <b>taxonomic rank value (e.g., genus, subgenus, species or subspecies)</b> of the patient. See Section C.7.1.1.1.3. Only a single Item shall be included in this sequence. Required if the patient is an animal and if Patient Species Description (0010,2201) is not present. May be present otherwise.
>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"			Defined CID 7454 "SpeciesAnimal Taxonomic Rank Values".
Patient Breed Description	(0010,2292)	2C	The breed of the patient. See Section C.7.1.1.1.1. Required if the patient is an animal and if Patient Breed Code Sequence (0010,2293) is empty. May be present otherwise.
Patient Breed Code Sequence	(0010,2293)	2C	The breed of the patient. See Section C.7.1.1.1.1. Zero or more Items shall be included in this sequence. Required if the patient is an animal.
>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"			Defined CID 7480 "Breed".
Breed Registration Sequence	(0010,2294)	2C	Information identifying an animal within a breed registry. Zero or more Items shall be included in this sequence. Required if the patient is an animal.
>Breed Registration Number	(0010,2295)	1	Identification number of an animal within the registry.
>Breed Registry Code Sequence	(0010,2296)	1	Identification of the organization with which an animal is registered. Only a single Item shall be included in this sequence.
>>Include Table 8.8-1 "Basic Code Sequence Macro Attributes"			Defined CID 7481 "Breed Registry".

Attribute Name	Tag	Type	Attribute Description
<u>Strain Description</u>	<u>(0010.eee2)</u>	<u>3</u>	<u>The strain of the patient. See Section C.7.1.1.1.4.</u>
<u>Strain Nomenclature</u>	<u>(0010.eee3)</u>	<u>3</u>	<u>The nomenclature used for Strain Description (0010.eee2). See Section C.7.1.1.1.4.</u>
<u>Strain Code Sequence</u>	<u>(0010.ee20)</u>	<u>3</u>	<u>A coded identification of the strain if the patient. See Section C.7.1.1.1.4.</u>  <u>One or more Items are permitted in this sequence. If more than one item is present, each item represents the same information but encoded using a different coding scheme (rather than post-coordinated modifiers).</u>
<b>&gt;Include Table 8.8-1 "Basic Code Sequence Macro Attributes"</b>			<b>No Baseline CID.</b>
<u>Strain Additional Information</u>	<u>(0010.eee8)</u>	<u>3</u>	<u>Additional information about the strain of the patient that is not encoded in the formal nomenclature used in Strain Description (0010.eee2). See Section C.7.1.1.1.4.</u>
<u>Strain Stock Sequence</u>	<u>(0010.eee6)</u>	<u>3</u>	<u>Information identifying an animal within a strain stock.</u>  <u>Only a single Item is permitted in this sequence.</u>
<b>&gt;Strain Stock Number</b>	<b><u>(0010.eee4)</u></b>	<b><u>1</u></b>	<b><u>The stock number of the strain of the patient issued by the organization identified by Strain Source (0010.eee6). See Section C.7.1.1.1.4.</u></b>
<b>&gt;Strain Source</b>	<b><u>(0010.eee7)</u></b>	<b><u>1</u></b>	<b><u>Identification of the organization that is the source of the animal, issued by the registry identified by Strain Source Registry Code Sequence (0010.eee5). See Section C.7.1.1.1.4.</u></b>
<b>&gt;Strain Source Registry Code Sequence</b>	<b><u>(0010.eee5)</u></b>	<b><u>1</u></b>	<b><u>Identification of the organization that is the registry of sources of animals. See Section C.7.1.1.1.4.</u></b>  <b><u>Only a single Item is permitted in this sequence.</u></b>
<b>&gt;&gt;Include Table 8.8-1 "Basic Code Sequence Macro Attributes"</b>			<b>No Baseline CID.</b>
...	...	...	...

## C.7.1.1.1 Patient Module Attributes

### C.7.1.1.1.1 Patient Breed Description and Code Sequence

The breed of an animal, if known, shall be encoded in either Patient Breed Description (0010,2292) or Patient Breed Code Sequence (0010,2293) or both.

In the case of a mixed breed, it shall be either:

- described in plain text in Patient Breed Description (0010,2292), e.g., "Border Collie American Bulldog mix", or just "Mixed", or
- coded as multiple specific breeds by composing the mix as multiple items of Patient Breed Code Sequence (0010,2293), e.g., (L-809A2,SRT,"Border Collie dog breed") followed by (L-80974,SRT, "American Bulldog breed"), or
- encoded non-specifically with a code that means "mixed breed" of the appropriate species, as defined in CID 7486 "Mixed Breeds", which is included in CID 7480 "Breed", e.g., (L-809DF,SRT,"Mixed breed dog").

#### Note

The absence of a value for both Patient Breed Description (0010,2292) and Patient Breed Code Sequence (0010,2293) implies that the breed is unknown, not that it is mixed.

### 1 C.7.1.1.1.3 Patient Species (Taxonomic Rank Value)

2 If the species is not known then the Patient Species Description (0010.2201) or Patient Species Code Sequence (0010.2202)  
3 may describe a more general taxonomic rank value, such as a genus or subgenus, family or subfamily.

4 Note

5 E.g., "Mus" rather than "Mus musculus".

6 If the subspecies is known then the Patient Species Description (0010.2201) or Patient Species Code Sequence (0010.2202)  
7 may describe the subspecies.

8 Note

9 E.g., "Canis lupus familiaris" rather than "Canis lupus".

### 10 C.7.1.1.1.4 Patient Strain

11 The strain of an animal (group of animals that is genetically uniform), if known, may be encoded in Strain Description  
12 (0010.eee2). The nomenclature used may be encoded in Strain Nomenclature (0010.eee3). A precoordinated code identifying  
13 the strain may be encoded in Strain Code Sequence (0010.ee20).

14 **Defined Terms for Strain Nomenclature (0010.eee3):**

16 MGI\_2013 International Committee on Standardized Genetic Nomenclature for Mice, Rat Genome and Nomenclature  
17 Committee. MGI-Guidelines for Nomenclature of Mouse and Rat Strains. 2013/10. Available from: [http://](http://www.informatics.jax.org/mgihome/nomen/strains.shtml)  
18 [www.informatics.jax.org/mgihome/nomen/strains.shtml](http://www.informatics.jax.org/mgihome/nomen/strains.shtml)

19 Note

- 20 • A pair of text and nomenclature Attributes are used, since standard nomenclatures typically define values that  
21 are constructed from multiple components, and do not distinguish between value and meaning. These are distinct  
22 from the precoordinated codes used in Strain Code Sequence (0010.ee20).
- 23 • Some strain nomenclatures make use of superscripts. To encode these superscripts consistently in an unformatted  
24 string, the convention of enclosing the superscript text in "<" and ">" pairs may be used. E.g., "D2.B6-Ahr<sup>b-1</sup>/J"  
25 would be encoded as "D2.B6-Ahr<b-1>/J".
- 26 • Relevant information that is not encoded in the formal description of the strain (i.e., not defined in the nomenclature  
27 used), such as the number of transgenes, may be encoded as plain text in Strain Additional Information (0010.eee8).

28 The strain of an animal may be more specifically identified by the Attributes within Strain Stock Sequence (0010.eee6).

29 Note

- 30 • The MGI-Guidelines for Nomenclature of Mouse and Rat Strains recommends the use of the laboratory codes  
31 assigned by the Institute of Laboratory Animal Research (ILAR). See the International Laboratory Code Registry  
32 (ILCR) <http://dels.nas.edu/global/ilar/lab-codes>.
- 33 • Because allele names are closely tied to gene names/symbols it is necessary to have a unique and permanent  
34 code for any allele that is part of a genotype of interest. For mice, MGI is the authoritative source of the nomen-  
35 clature for genes and alleles and maintains unique, permanent codes for these entities. The MGI provides a report  
36 of all precoordinated MGI codes that are assigned to specific strains at [ftp://ftp.informatics.jax.org/pub/reports/](ftp://ftp.informatics.jax.org/pub/reports/MGI_Strain.rpt)  
37 MGI\_Strain.rpt. These may be used in Strain Code Sequence (0010.ee20) with a coding scheme of "MGI".
- 38 • Another source of pre-coordinated codes for strains is the NCI Thesaurus, which includes a snapshot of strains  
39 from the International Mouse Strain Resource (IMSR), as children of (C14421, NCI, "Inbred Mouse Strains"). See  
40 [http://ncit.nci.nih.gov/ncitbrowser/pages/concept\\_details.jsf?dictionary=NCI\\_Thesaurus&code=C14421](http://ncit.nci.nih.gov/ncitbrowser/pages/concept_details.jsf?dictionary=NCI_Thesaurus&code=C14421).
- 41 • For example, a C57BL/6J mouse strain from The Jackson Laboratory might be identified as:
- 42 • Strain Description (0010.eee2) = "C57BL/6J"

- **Strain Nomenclature (0010,eee3) = "MGI\_2013"**
- **Strain Code Sequence (0010,ee20)**
- **>Code Value = "3028467"**
- **>Coding Scheme Designator = "MGI"**
- **>Code Meaning = "C57BL/6J"**
- **Strain Stock Sequence (0010,eee6)**
- **>Strain Stock Number (0010,eee4) = "000664"**
- **>Strain Source (0010,eee7) = "Jrep"**
- **>Strain Source Registry Code Sequence (0010,eee5) = (ddd102, DCM, "ILCR")**

Add new data elements to DICOM PS3.6 as follows:

**Table 6-1. Registry of DICOM Data Elements**

Tag	Name	Keyword	VR	VM	
(0010,eee2)	Strain Description		UC	1	
(0010,eee3)	Strain Nomenclature		LO	1	
(0010,eee4)	Strain Stock Number		LO	1	
(0010,eee5)	Strain Source Registry Code Sequence		SQ	1	
(0010,eee6)	Strain Stock Sequence		SQ	1	
(0010,eee7)	Strain Source		LO	1	
(0010,eee8)	Strain Additional Information		UT	1	
(0010,ee20)	Strain Code Sequence		SQ	1	

Add new UIDs to DICOM PS3.6 as follows:

## A Registry of DICOM Unique Identifiers (UIDs) (Normative)

Table A-1 lists the UID values that are registered and used throughout the Parts of the DICOM Standard. This central registry ensures that when additional UIDs are assigned, non-duplicate values are assigned.

**Table A-1. UID Values**

UID Value	UID Name	UID Type	Part
<u>1.2.840.10008.2.xx1</u>	<u>Integrated Taxonomic Information System (ITIS) Taxonomic Serial Number (TSN)</u>	<u>Coding Scheme</u>	<u>PS3.16</u>
<u>1.2.840.10008.2.xx2</u>	<u>Mouse Genome Initiative (MGI)</u>	<u>Coding Scheme</u>	<u>PS3.16</u>

Add new coding schemes to DICOM PS3.16 as follows:

## 8 Coding Schemes

...

Table 8-1. Coding Schemes

Coding Scheme Designator	Coding Scheme UID	Description
<u>ITIS_TSN</u>	<u>1.2.840.10008.2.xx1</u>	<u>A Taxonomic Serial Number (TSN) is a unique, persistent, non-intelligent identifier for a scientific name in the context of the Integrated Taxonomic Information System (ITIS).</u>  <u>See <a href="http://www.itis.gov">http://www.itis.gov</a>.</u>
<u>MGI</u>	<u>1.2.840.10008.2.xx2</u>	<u>The MGI ID from the Mouse Genome Initiative (MGI) nomenclature.</u>  <u>See <a href="http://www.informatics.jax.org/mgihome/nomen/">http://www.informatics.jax.org/mgihome/nomen/</a>.</u>

Add new context groups to DICOM PS3.16 as follows:

## CID ccc1 Research Animal Source Registries

Type: Extensible  
Version: yyyyymmdd

Table CID ccc1. Research Animal Source Registries

Coding Scheme Designator	Code Value	Code Meaning
DCM	ddd102	ILCR

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

## CID 7454 ~~Species~~Animal Taxonomic Rank Values

Type: Extensible  
Version: ~~20060822~~yyyyymmdd

Table CID 7454. ~~Species~~Animal Taxonomic Rank Values

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	ITIS TSN
SRT	<del>L-85B00</del> <u>L-85003</u>	homo sapiens	<del>30996004</del> <u>337915000</u>	<u>C0086418</u>	<u>180092</u>
<del>SRT</del>	<del>L-80A00</del>	<del>Feline species</del>	<del>23826000</del>		
<u>SRT</u>	<u>L-000F9</u>	<u>Felis</u>	<u>388626009</u>	<u>C0524517</u>	<u>180586</u>
<u>SRT</u>	<u>L-00376</u>	<u>Felis catus (domestic cat)</u>	<u>448169003</u>	<u>C0007450</u>	<u>183798</u>
<del>SRT</del>	<del>L-80400</del>	<del>Equine species</del>	<del>26570006</del>		
<u>SRT</u>	<u>L-000A9</u>	<u>Equus</u>	<u>388445009</u>	<u>C1265527</u>	<u>180689</u>
<u>SRT</u>	<u>L-8A102</u>	<u>Equus caballus (domestic horse)</u>	<u>35354009</u>	<u>C0019944</u>	<u>180691</u>
<del>SRT</del>	<del>L-80300</del>	<del>Ovine species</del>	<del>36295004</del>		
<u>SRT</u>	<u>L-8C3FD</u>	<u>Ovis</u>	<u>388254009</u>	<u>C0036945</u>	<u>180709</u>
<u>SRT</u>	<u>L-8C336</u>	<u>Ovis aries (domestic sheep)</u>	<u>125099002</u>	<u>C1123019</u>	<u>552475</u>
<del>SRT</del>	<del>L-80500</del>	<del>Porcine species</del>	<del>42048006</del>		
<u>SRT</u>	<u>L-8B1FB</u>	<u>Sus</u>	<u>388393002</u>	<u>C1265533</u>	<u>180721</u>
<u>SRT</u>	<u>L-8B100</u>	<u>Sus scrofa</u>	<u>78678003</u>	<u>C1135183</u>	<u>180722</u>

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID	ITIS TSN
<u>SRT</u>	<u>L-8B10A</u>	<u>Sus scrofa scrofa (domestic pig)</u>	<u>125088004</u>	<u>C3665621</u>	<u>898310</u>
<u>SRT</u>	<u>L-80200</u>	<u>Caprine species</u>	<u>68552000</u>		
<u>SRT</u>	<u>L-8C3FB</u>	<u>Capra</u>	<u>388249000</u>	<u>C1265549</u>	<u>180714</u>
<u>SRT</u>	<u>L-8C306</u>	<u>Capra hircus (domestic goat)</u>	<u>125097000</u>	<u>C0018019</u>	<u>180715</u>
<u>SRT</u>	<u>L-80700</u>	<u>Canine species</u>	<u>69986009</u>		
<u>SRT</u>	<u>L-881FC</u>	<u>Canis</u>	<u>388490000</u>	<u>C0524516</u>	<u>180595</u>
<u>SRT</u>	<u>L-88121</u>	<u>Canis lupus</u>	<u>36855005</u>	<u>C1510418</u>	<u>180596</u>
<u>SRT</u>	<u>L-88124</u>	<u>Canis lupus familiaris (domestic dog)</u>	<u>448771007</u>	<u>C0012984</u>	<u>726821</u>
<u>SRT</u>	<u>L-80400</u>	<u>Bovine species</u>	<u>79058000</u>		
<u>SRT</u>	<u>L-8BA18</u>	<u>Bos</u>	<u>388168008</u>	<u>C1265540</u>	<u>183837</u>
<u>SRT</u>	<u>L-8B9F9</u>	<u>Bovinae</u>	<u>107007004</u>	<u>C0325235</u>	<u>552332</u>
<u>SRT</u>	<u>L-8B941</u>	<u>Bos taurus (domestic cow)</u>	<u>34618005</u>	<u>C1140701</u>	<u>183838</u>
<u>SRT</u>	<u>L-87830</u>	<u>Mus genus</u>	<u>447482001</u>	<u>C0026809</u>	<u>180365</u>
<u>SRT</u>	<u>L-87831</u>	<u>Mus musculus (House mouse)</u>	<u>447612001</u>	<u>C0025914</u>	<u>180366</u>
<u>ITIS_TSN</u>	<u>180278</u>	<u>Peromyscus leucopus (American white-footed mouse)</u>			<u>180278</u>
<u>ITIS_TSN</u>	<u>180276</u>	<u>Peromyscus maniculatus (Deer mouse)</u>			<u>180276</u>
<u>SRT</u>	<u>L-877FB</u>	<u>Rattus</u>	<u>371564000</u>	<u>C0034721</u>	<u>180361</u>
<u>SRT</u>	<u>L-877FC</u>	<u>Rattus norvegicus (common rat)</u>	<u>371565004</u>	<u>C0034693</u>	<u>180363</u>
<u>SRT</u>	<u>L-87A02</u>	<u>Cavia porcellus (domestic guinea pig)</u>	<u>125076001</u>	<u>C0999699</u>	<u>584713</u>
<u>SRT</u>	<u>L-88423</u>	<u>Mustela putorius furo (ferret)</u>	<u>449310008</u>	<u>C0015859</u>	<u>727313</u>
<u>SRT</u>	<u>L-86B02</u>	<u>Oryctolagus cuniculus (European rabbit)</u>	<u>36571002</u>	<u>C0324889</u>	<u>180129</u>
<u>SRT</u>	<u>L-001DE</u>	<u>Callithrix jacchus (common marmoset)</u>	<u>406733009</u>	<u>C0006765</u>	<u>572915</u>

#### Note

Codes that are now defined in SNOMED as "ambiguous" (conceptstatus = 4) were previously included in this table, but have been retired and replaced with unambiguous alternatives (e.g., (L-80700, SRT, "Canine species") has been replaced with genus (L-881FC, SRT, "Canis"), species (L-88121, SRT, "Canis lupus") and subspecies (L-88124, SRT, "Canis lupus familiaris"). Note that in UMLS, there is a lack of distinction between "Canis familiaris" and "Canis lupus familiaris". The replaced codes are (L-85B00, SRT, "homo sapiens"), (L-80A00, SRT, "Feline species"), (L-80400, SRT, "Equine species"), (L-80300, SRT, "Ovine species"), (L-80500, SRT, "Porcine species"), (L-80200, SRT, "Caprine species"), (L-80700, SRT, "Canine species") and (L-80100, SRT, "Bovine species").

## CID 7480 Breed

Type: Extensible  
Version: 20110818yyymmdd



1 **Table CID 7480. Breed**

Coding Scheme Designator	Code Value	Code Meaning
...	...	...
<b>SRT</b>	<b>L-86B49</b>	<b>New Zealand rabbit breed</b>

5 **D DICOM Controlled Terminology Definitions (Normative)**

6 This Annex specifies the meanings of codes defined in DICOM, either explicitly or by reference to another part of DICOM or an external reference document or standard.

8 DICOM Code Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")

9 **Table D-1. DICOM Controlled Terminology Definitions**

Code Value	Code Meaning	Definition	Notes
<b><u>ddd102</u></b>	<b><u>ILCR</u></b>	<b><u>The International Laboratory Code Registry (ILCR) of the Institute of Laboratory Animal Research (ILAR). See <a href="http://dels.nas.edu/global/ilar/lab-codes">http://dels.nas.edu/global/ilar/lab-codes</a>.</u></b>	